

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT APPLICATION

5 Entitled : A turbine vane cooled by a reduced cooling air
 leak

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ABSTRACT OF THE DISCLOSURE

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 A turbomachine turbine vane including a multiply-
perforated liner defining an annular cavity between an
outside wall of the liner and an inside wall of the vane,
an air admission opening for feeding the inside of the
20 liner with cooling air and an air exhaust opening for
exhausting a fraction of the cooling air from the vane,
the liner being secured to the vane at one end and being
free at its other to slide along an inside edge of the
vane under the effects of relative thermal expansion
25 between the liner and the inside wall of the vane, the
annular gap between said free end of the liner and the
inside edge of the vane defining a leakage zone for
cooling air and the inside edge includes a recess for
generating head loss in this leakage zone so as to reduce
30 the flow rate of cooling air passing therethrough.